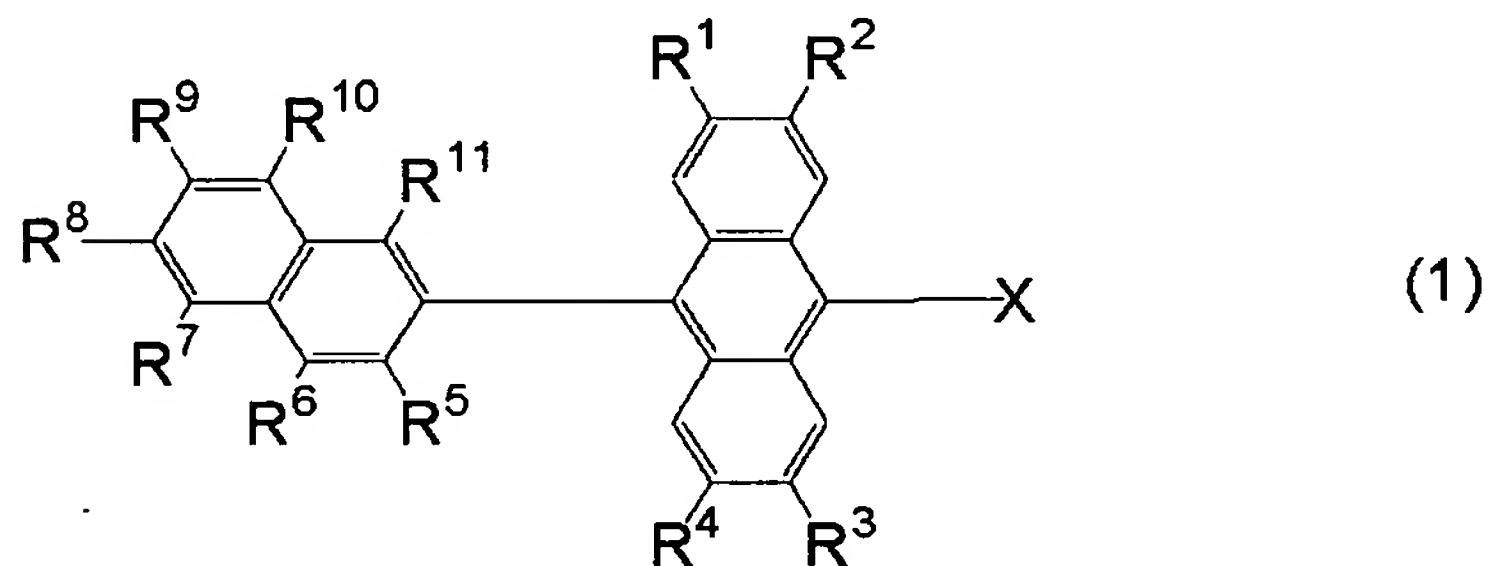


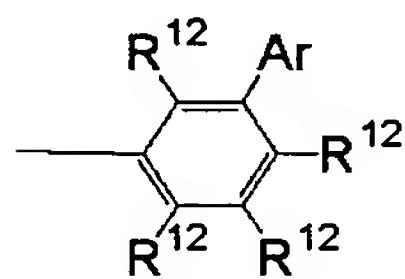
What is claimed is:

1. An organic electroluminescent device which is sandwiched between an anode and a cathode and which comprises at least a hole transport layer, an emission layer and an electron  
5 transport layer, wherein the emission layer comprises an anthracene derivative represented by Formula (1) shown below as a host and at least one selected from a perylene derivative, a borane derivative, a coumarin derivative, a pyran derivative, an iridium complex and a platinum complex  
10 as a dopant:

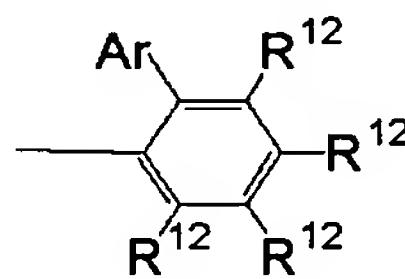


wherein R<sup>1</sup> to R<sup>4</sup> are independently hydrogen or alkyl having 1 to 12 carbon atoms, and optional -CH<sub>2</sub>- in the above alkyl having 1 to 12 carbon atoms may be replaced by -O-; R<sup>5</sup> to R<sup>11</sup> are independently hydrogen, alkyl having 1 to 12 carbon atoms, cycloalkyl having 3 to 12 carbon atoms or aryl having 6 to 12 carbon atoms, wherein optional -CH<sub>2</sub>- in the above alkyl having 1 to 12 carbon atoms may be replaced by -O- or arylene having 6 to 12 carbon atoms; optional hydrogens in the above cycloalkyl having 3 to 12 carbon atoms may be replaced by alkyl having 1 to 12 carbon atoms or aryl having 6 to 12 carbon atoms; and optional hydrogens in the above aryl having

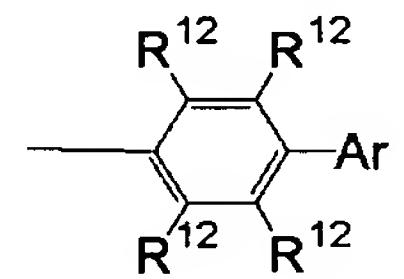
6 to 12 carbon atoms may be replaced by alkyl having 1 to 12 carbon atoms, cycloalkyl having 3 to 12 carbon atoms, aryl having 6 to 12 carbon atoms or non-condensed aryl having 12 to 18 carbon atoms; and X is one selected from the group of 5 groups represented by Formulas (2-1) to (2-15) shown below:



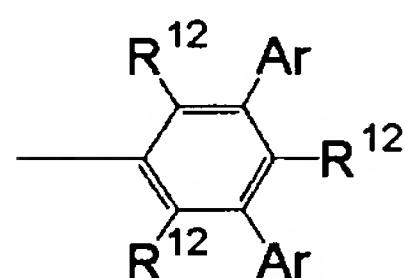
(2-1)



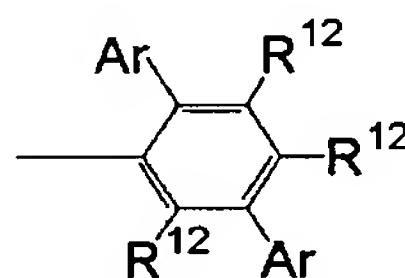
(2-2)



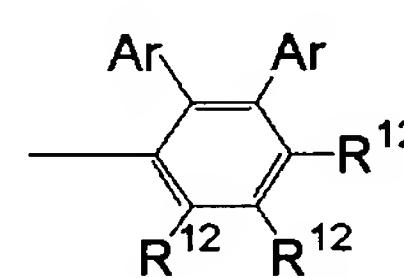
(2-3)



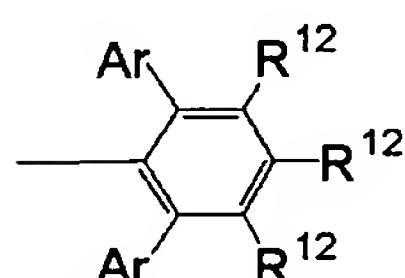
(2-4)



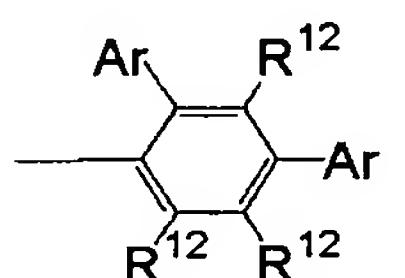
(2-5)



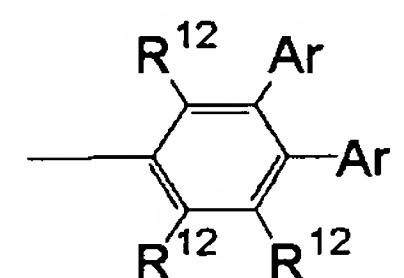
(2-6)



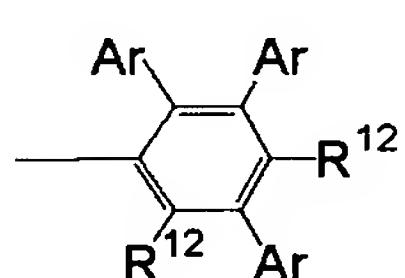
(2-7)



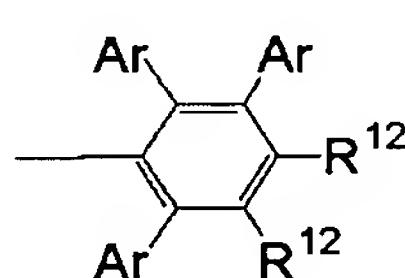
(2-8)



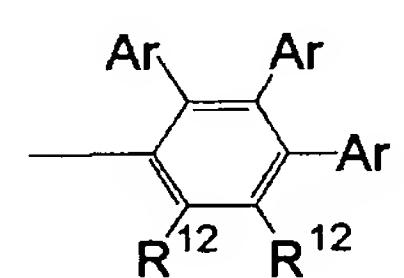
(2-9)



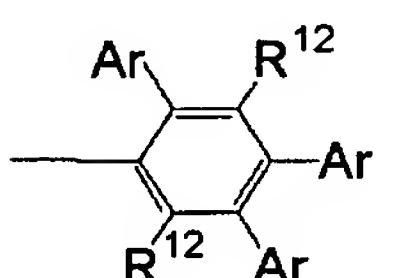
(2-10)



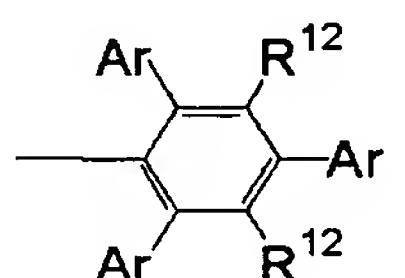
(2-11)



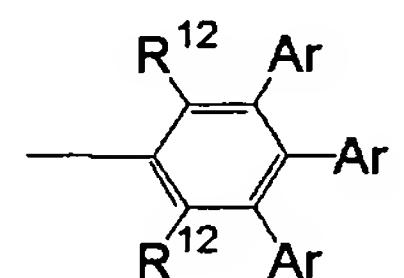
(2-12)



(2-13)

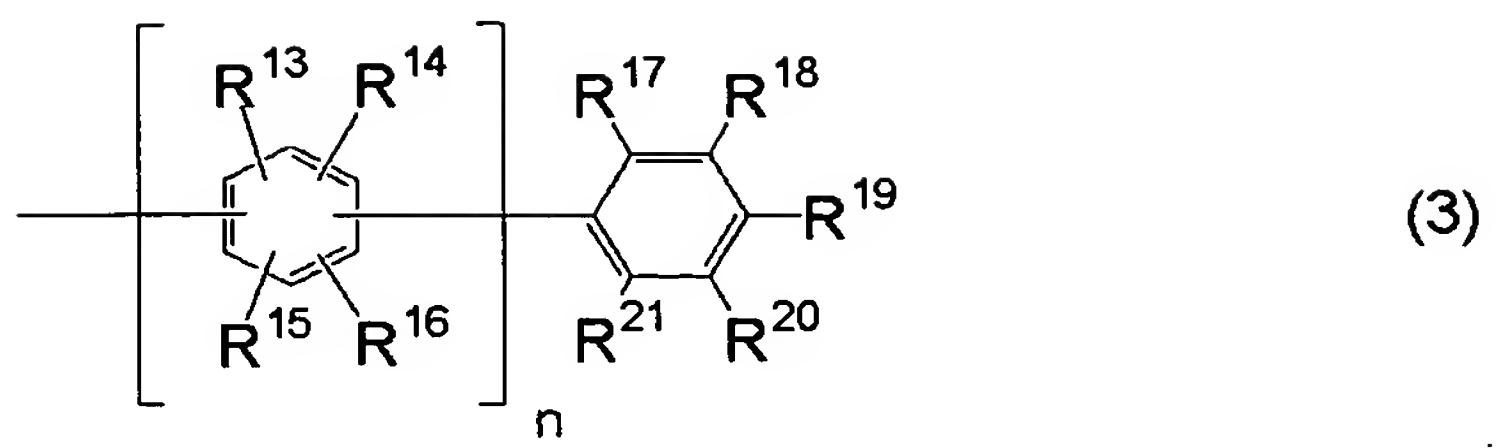


(2-14)



(2-15)

in Formulas (2-1) to (2-15), R<sup>12</sup> is independently the same as that represented by R<sup>1</sup> to R<sup>4</sup> in Formula (1); and Ar is independently non-condensed aryl represented by Formula (3):



wherein n is an integer of 0 to 5; R<sup>13</sup> to R<sup>21</sup> are independently hydrogen, alkyl having 1 to 12 carbon atoms or aryl having 6 to 12 carbon atoms; optional -CH<sub>2</sub>- in the above alkyl having 1 to 12 carbon atoms may be replaced by -O-, and optional hydrogens in the above aryl having 6 to 12 carbon atoms may be replaced by alkyl having 1 to 12 carbon atoms, cycloalkyl having 3 to 12 carbon atoms or aryl having 6 to 12 carbon atoms.

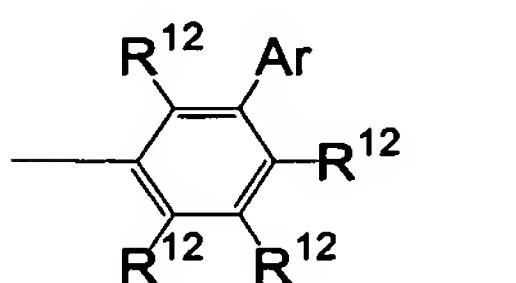
10 2. The organic electroluminescent device as described in claim 1, wherein the emission layer comprises as a host, the anthracene derivative in which R<sup>1</sup> to R<sup>4</sup> in Formula (1) are independently hydrogen, methyl or t-butyl; R<sup>5</sup> to R<sup>11</sup> are independently hydrogen, methyl, t-butyl, phenyl, 1-naphthyl, 15 2-naphthyl, 4-t-butylphenyl or m-terphenyl-5'-yl; X is one selected from the group of the groups represented by Formulas (2-1) to (2-15); and in Formulas (2-1) to (2-15), R<sup>12</sup> is independently hydrogen, methyl or t-butyl.

20 3. The organic electroluminescent device as described in claim 1, wherein the emission layer comprises as a host, the anthracene derivative in which R<sup>1</sup> to R<sup>4</sup> in Formula (1) are hydrogen; R<sup>5</sup> to R<sup>11</sup> are independently hydrogen, phenyl, 1-

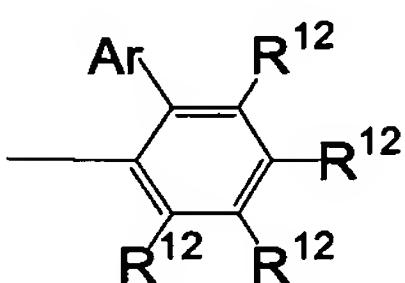
naphthyl, 2-naphthyl or m-terphenyl-5'-yl; X is one selected from the group of the groups represented by Formulas (2-1) to (2-15); and in Formulas (2-1) to (2-15), R<sup>12</sup> is hydrogen.

5 4. The organic electroluminescent device as described in claim 1, wherein the emission layer comprises as a host, the anthracene derivative in which R<sup>1</sup> to R<sup>4</sup> in Formula (1) are hydrogen; R<sup>5</sup> to R<sup>11</sup> are independently hydrogen, phenyl, 1-naphthyl, 2-naphthyl or m-terphenyl-5'-yl; and X is one selected from the group of the groups represented by Formulas (2-1), (2-2), (2-4) to (2-6) and (2-10) shown below:

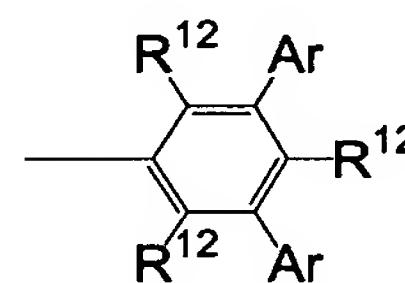
10



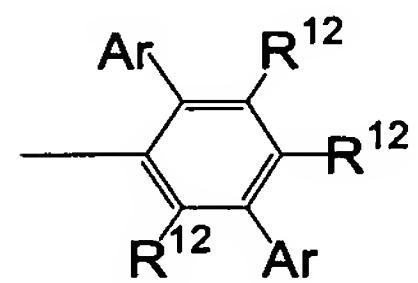
(2-1)



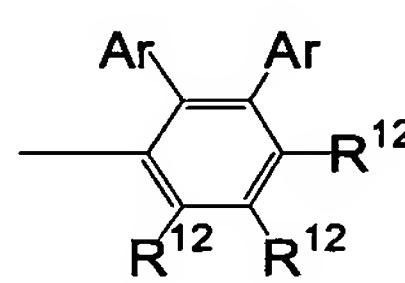
(2-2)



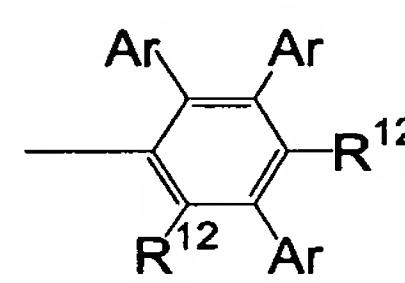
(2-4)



(2-5)



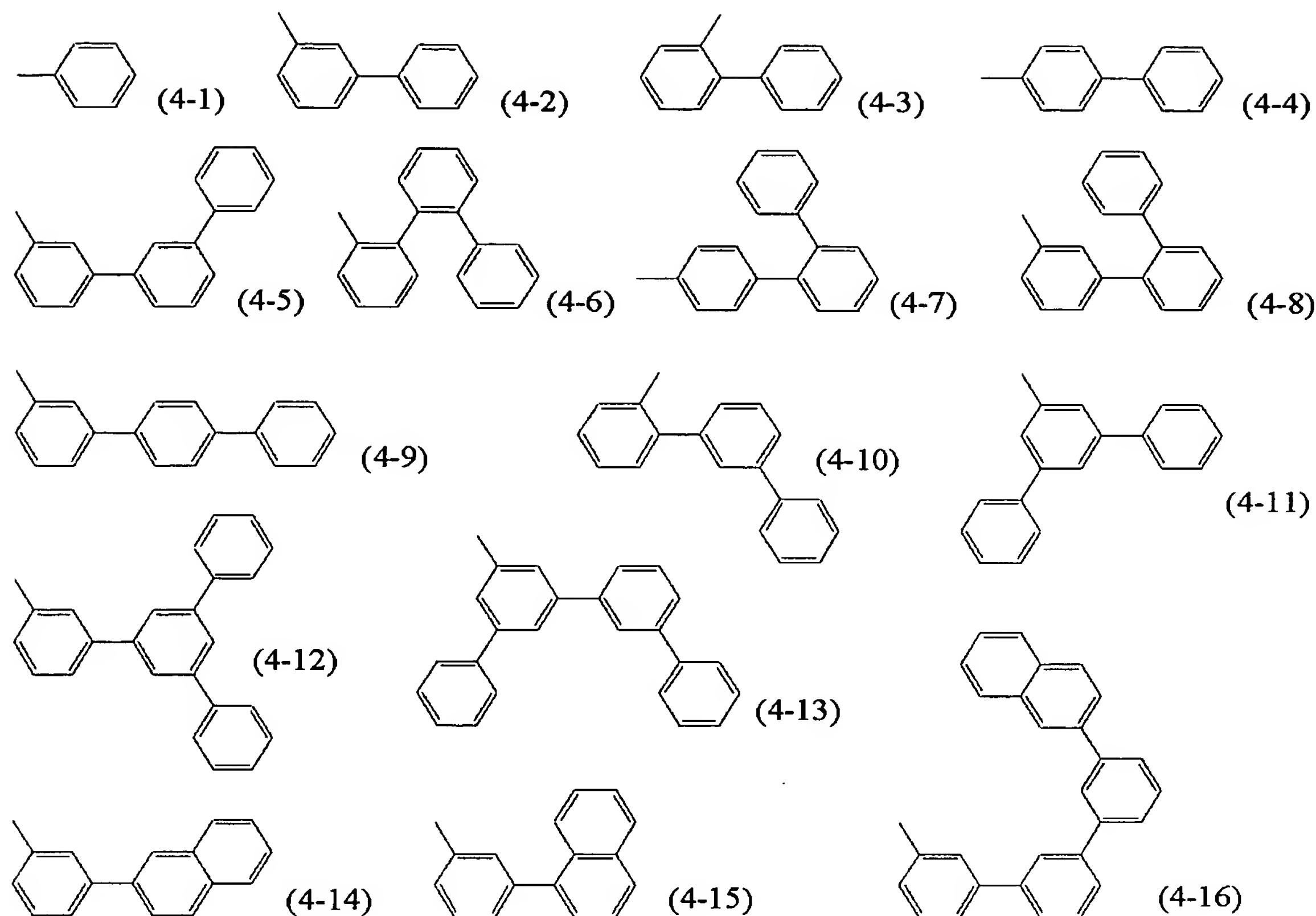
(2-6)



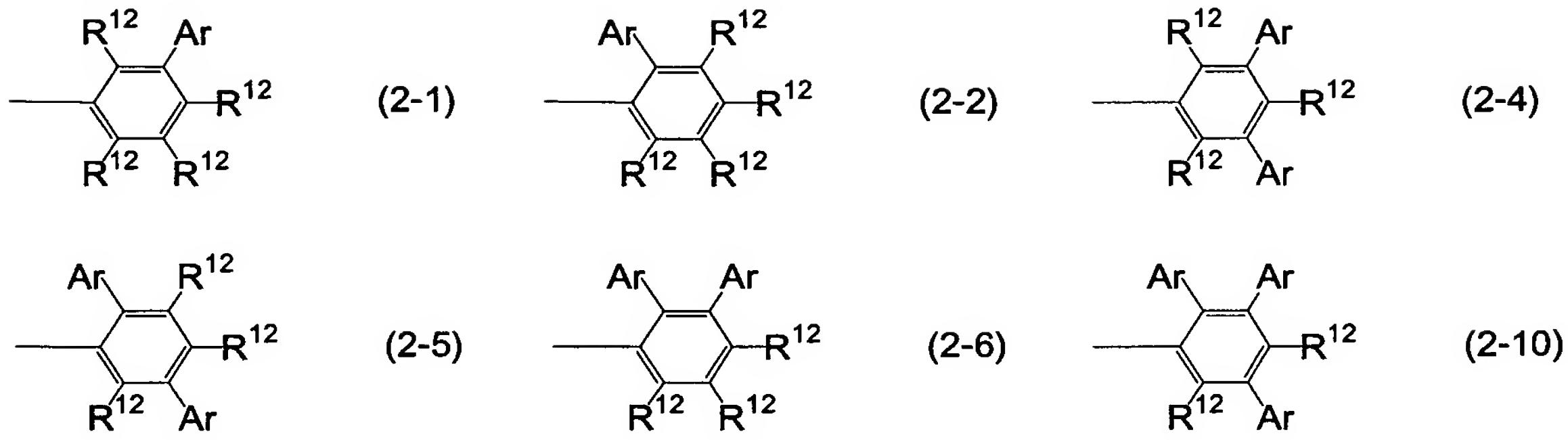
(2-10)

in Formulas (2-1), (2-2), (2-4) to (2-6) and (2-10), R<sup>12</sup> is hydrogen; and Ar is independently one selected from the group of groups represented by Formulas (4-1) to (4-16) shown below:

15

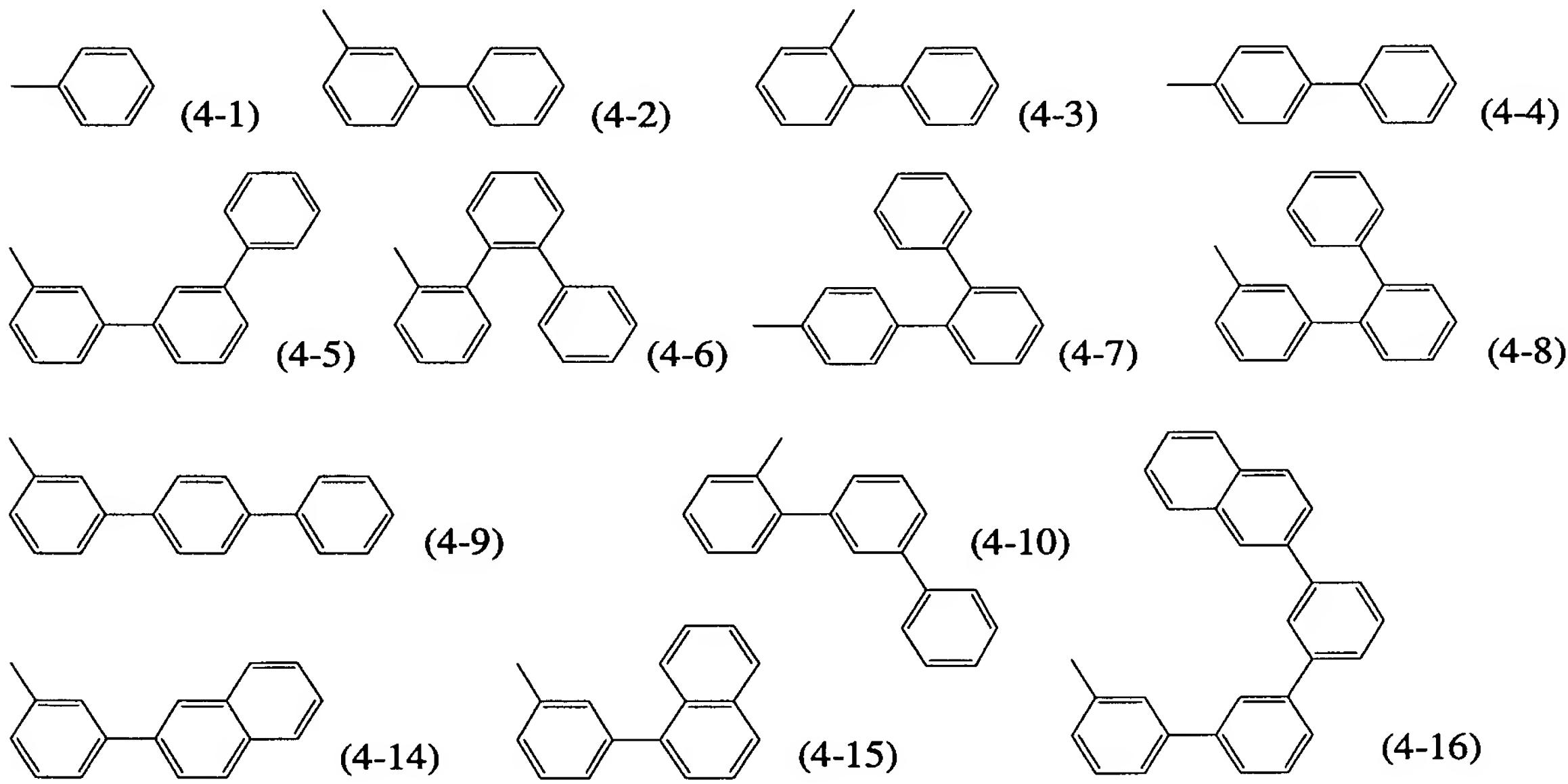


5. The organic electroluminescent device as described in  
 claim 1, wherein the emission layer comprises as a host, the  
 5 anthracene derivative in which R<sup>1</sup> to R<sup>4</sup> in Formula (1) are  
 hydrogen; R<sup>5</sup> to R<sup>11</sup> are independently hydrogen, phenyl, 1-  
 naphthyl, 2-naphthyl or m-terphenyl-5'-yl; and X is one  
 selected from the group of the groups represented by Formulas  
 (2-1), (2-2), (2-4) to (2-6) and (2-10) shown below:



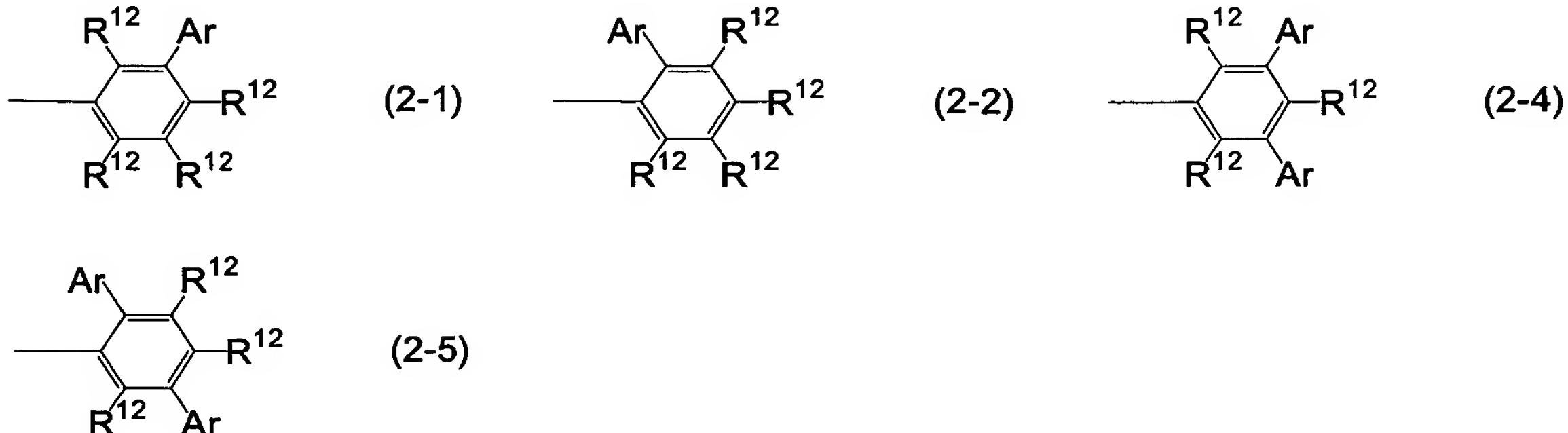
in Formulas (2-1), (2-2), (2-4) to (2-6) and (2-10), R<sup>12</sup> is hydrogen; and Ar is independently one selected from the group of groups represented by Formulas (4-1) to (4-10) and (4-14) to (4-16) shown below:

5



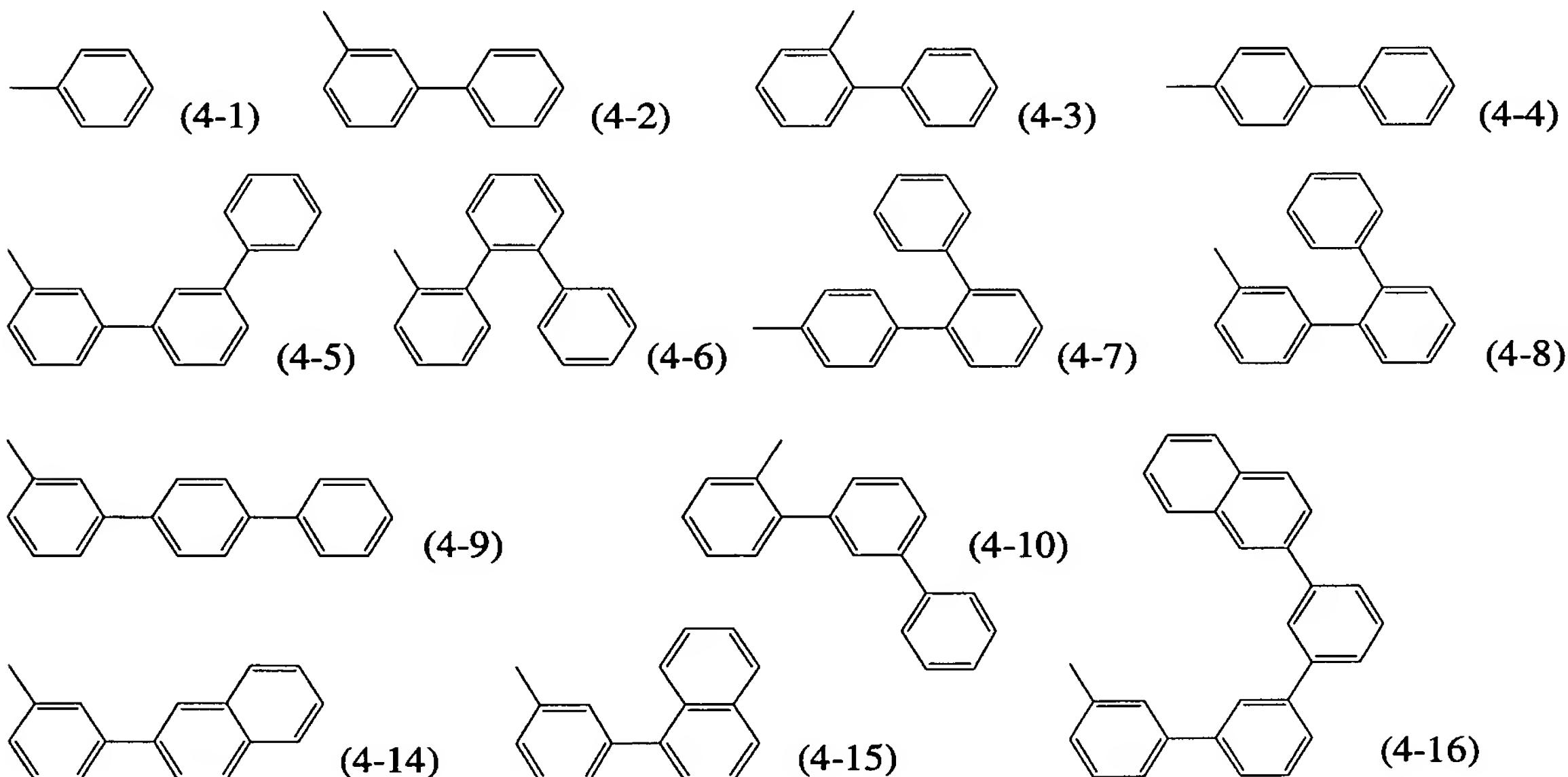
6. The organic electroluminescent device as described in  
claim 1, wherein the emission layer comprises as a host, the  
10 anthracene derivative in which R<sup>1</sup> to R<sup>4</sup> in Formula (1) are  
hydrogen; R<sup>5</sup> to R<sup>11</sup> are independently hydrogen, phenyl, 1-  
naphthyl, 2-naphthyl or m-terphenyl-5'-yl; and X is one

selected from the group of the groups represented by Formulas (2-1), (2-2), (2-4) and (2-5) shown below:



in Formulas (2-1), (2-2), (2-4) and (2-5),  $R^{12}$  is hydrogen;

5 and Ar is independently one selected from the group of groups  
represented by Formulas (4-1) to (4-10) and (4-14) to (4-16)  
shown below:



10

7. The organic electroluminescent device as described in claims 1 to 6, wherein the electron transport layer comprises a quinolyl base metal complex.

8. The organic electroluminescent device as described in claims 1 to 6, wherein the electron transport layer comprises at least one of a pyridine derivative and a phenanthroline derivative.

5

9. The organic electroluminescent device as described in claim 7, wherein the emission layer comprises the perylene derivative as a dopant.

10 10. The organic electroluminescent device as described in claim 8, wherein the emission layer comprises the perylene derivative as a dopant.

15 11. The organic electroluminescent device as described in claim 7, wherein the emission layer comprises the borane derivative as a dopant.

12. The organic electroluminescent device as described in claim 8, wherein the emission layer comprises the borane derivative as a dopant.

20 13. The organic electroluminescent device as described in claim 7, wherein the emission layer comprises the coumarin derivative as a dopant.

25

14. The organic electroluminescent device as described in

claim 8, wherein the emission layer comprises the coumarin derivative as a dopant.

15. The organic electroluminescent device as described in  
5 claim 7, wherein the emission layer comprises the pyran derivative as a dopant.

16. The organic electroluminescent device as described in  
claim 8, wherein the emission layer comprises the pyran  
10 derivative as a dopant.

17. The organic electroluminescent device as described in  
claim 7, wherein the emission layer comprises the iridium complex as a dopant.

15  
18. The organic electroluminescent device as described in  
claim 8, wherein the emission layer comprises the iridium complex as a dopant.

20. 19. The organic electroluminescent device as described in  
claim 7, wherein the emission layer comprises the platinum complex as a dopant.

25  
20. The organic electroluminescent device as described in  
claim 8, wherein the emission layer comprises the platinum complex as a dopant.